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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/761,893	01/17/2001	Shih-Chieh Hung	11709-003001	6011
Shih-Chieh Hu	7590 05/27/201 ng	EXAMINER		
Dept. of Orthop. and Traumetology, Vet. General 201, Sec. 2, Shih-pai Road Hospital-Taipei Taipei, 11217			DUNSTON, JENNIFER ANN	
			ART UNIT	PAPER NUMBER
			1636	
TAIWAN				
			MAIL DATE	DELIVERY MODE
			05/27/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)
09/761,893	HUNG ET AL.
Examiner	Art Unit
Jennifer Dunston	1636

-The MALINIO DATE of this communication appears on the cover sheet with the correspondence address - THE REPLY ELED SI May 2011 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. 1. ■ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this spiciation, applicant must limitely life one of the following replica; (1) an amendment, afficiative, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.141. The reply must be filed within one of the following replication: a) The period for reply expiresmonths from the mailing date of the final rejection. b) The period for reply expires on: (1) the mailing date of this final rejection. Examiner Notes: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION. See MPPE 706.87(f). Examiner Notes: The ST TERPLY WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION. See MPPE 706.87(f). Examiner Notes: The ST TERPLY WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION. See MPPE 706.87(f). Examiner Notes: The ST TERPLY WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION. See MPPE 706.87(f). Examiner Notes: The ST TERPLY WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION. See WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION. See WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION. See WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION SEE WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION. See WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION SEE WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION SEE WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION SEE WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION SEE WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION SEE WAS FILED WITHIN TWO CHARLES OF THE FINAL RESECTION SE						
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Continuation of 5. Applicant's reply has overcome the following rejection(s): The rejection of claims 1, 4, 6, 9-11 and 34-38 under 35 USC 112, second paragraph, has been withdrawn in view of Applicant's amendment to claim 1.

Continuation of 11. does NOT place the application in condition for allowance because: Claims 1, 4, 6, 9, 11 and 34-38 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Caplan et al in view of Prockop et al and Matsui et al.

Claim 10 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Caplan et al in view of Prockop et al and Matsui et al, and further in view of Pittenger et al.

Claims 1, 4, 6, 9, 11 and 34-38 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Caplan et al in view of Burkitt et al and Mussi et al.

Claim 10 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Caplan et al in view of Burkitt et al and Mussi et al, and further in view of Pittenger et al.

Claims 1, 4, 6, 9, 11 and 34-38 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Caplan et al in view of Guirguis and Matsui et al.

Claim 10 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Caplan et al in view of Guirguis and Matsui et al.

Applicant's arguments filed 5/3/2011 have been fully considered but they are not persuasive.

The response asserts that there is no motivation or reason to combine these prior arts. Specifically, the response asserts that the function of the Leukosorb filter of Caplan et al for the separation of human MSCs from fat cells and red blood cells from bone marrow aspirate is exactly opposite the filter of Matsui et al.

This argument is not found persuasive. Caplan et al teach the use of a Leukosorb™ filter to remove red blood cells, where the mesenchymal stem cells (MSCs) are retained in the filter and the red blood cells pass through the filter (e.g., column 46, lines 11-34). The filter of Matsui et al would function in the same manner to retain the MSCs while allowing the red blood cells to pass though. Prockop et al teach that MSCs are retained on a polycarbonate filter containing 10 micrometer pores (e.g., column 39, line 60 to column 40, line 42), and Matsui et al teach a device with a polycarbonate filter (e.g., column 2, lines 41-45; column 3, lines 5-18; Figure 8). Both filters retain MSCs while allowing smaller red blood cells to pass through.

The response criticizes the experiments of Prockop et al, because frozen stock of MSCs, which did not contain haematopoietic stem cells, were used.

This argument is not found persuasive. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., separation of haematopoietic stem cells from mesenchymal stem cells) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

The response asserts that the specification teaches that "in one preferred embodiment, cell populations having greater than 98% of human MSCs can be obtained in accordance with the method of the invention, and such isolated MSCs can proliferate without differentiation and reach confluence even after 12 passages. The isolated MSCs of the present invention are uniform CD34-, and can be induced to differentiate into bone, adipose, cartilage, and various other type of connective tissues." [0011]. The response asserts that the present application created an unexpected or significant improvement at the time of the invention.

This argument is not found persuasive. The claims do not require the MSCs to be obtained with greater than 98% purity. Furthermore, the declaration filed 5/3/2011 indicates that Applicant used pores of 0.4 to 16 microns, which is not commensurate in scope with the claimed invention. Moreover, no objective data is provided for a comparison of the claimed invention and the closest prior art to provide evidence of an unexpected or superior result.

For these reasons, and the reasons made of record in the previous office actions, the rejections are maintained.

The declaration under 37 CFR 1.132 filed 5/3/2011 is insufficient to overcome the rejection of claims based upon the application of the Caplan, Prockop, Matsui, Pittenger, Burkitt, Mussi, and Guirguis under 35 U.S.C. 103(a), as set forth in the last Office action because: It refer(s) only to the system described in the above referenced application and not to the individual claims of the application. Thus, there is no showing that the objective evidence of nonobviousness is commensurate in scope with the claims. See MPEP § 716. It states that the claimed subject matter solved a problem that was long standing in the art. However, there is no showing that others of ordinary skill in the art were working on the problem and if so, for how long. In addition, there is no evidence that if persons skilled in the art who were presumably working on the problem knew of the teachings of the above cited references, they would still be unable to solve the problem. See MPEP § 716.04.

Declarant is of the opinion that the application created an unexpected result or significant improvement. The declaration asserts that cell populations having greater than 98% of human MSCs could be obtained in accordance with the method of the invention, and such isolated MSCs can proliferate without differentiation and reach confluence even after 12 passages, which solved part of the long-felt need problems of human MSCs. Further, the declaration states that the working example on page 5 of the foreign priority document mentions that the upper plate had pores of 0.4 to 16 microns in diameter.

No objective evidence is provided of the unexpected result. No comparison is made between the claimed invention and the closes prior art. No nexus links the unexpected result to the claimed invention. Although the foreign priority document may refer to pores of 0.4 to 16

microns, this information is not present in the originally filed specification of the present application. Moreover, there is no clear definition of the long-felt need. First, the need must have been a persistent one that was recognized by ordinary skill in the art. Second, the long-felt need must not have been satisfied by another before the invention by applicant. Third, the invention must satisfy the long-felt need.